PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION DECEMBER 2018
(Fourth Semester)

Branch - **COMPUTER APPLICATIONS**

CORE ELECTIVE-II - BIG DATA ANALYTICS

Time: Three Hours   Maximum: 75 Marks

SECTION -A (30 Marks!
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

1   a Define Big Data. Write the characteristics of Big Data.
OR
   b Write a short note on traditional and advanced analytics.

2   a What are challenges raised in the security infrastructure for Big Data?
OR
   b Explain the operations databases layer of Big Data Technology Stack.

3   a What is Hypervisor? Write a note on Managing Virtualization with the Hypervisor.
OR
   b Write a note on Management and Security challenges with virtualization.

4   a Write about Riak key-value database.
OR
   b List out the important characteristics of HBase.

5   a When will you use basic analytics? Give examples.
OR
   b Why Semi-custom applications for big data analytics is important?

SECTION -B (45 MarkslA
Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x 1 5 = 45)

6   Why do weneed distributed computing for big data?

7   Discuss the Analytical Data Warehouses layer of Big Data Stack.

8   Explain the various types of cloud deployment and cloud delivery models.

9   Elucidate : (i) Neo4J graph database (ii) Spatial Databases.

10   Discuss the characteristics of a Big Data Analysis Framework.

Z-Z-Z   END